

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 92-10685

Exam Date: 6/13/2017

1. Current Owner:

FRED C JOHNSON 4889 ALDER CREEK RD SAINT MARIES ID 83861 2082450406

2. Accompanied by: Fred Johnson

3. SOURCE:

UNNAMED STREAM

TRIBUTARY:

ALDER CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

UNNAMED STREAM NW¼SE¼ Sec. 27, Twp 45N, Rge 03W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD location at 116° 42.103, 47° 12.949

2.

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
45N	03W	27														X			

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
45N	03W	27														X			

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
45N	03W	27														X			

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
45N	03W	27														X			

Method of Determination: Google Earth and Arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ X

Indicate weir size/pipe as applicable.

☒ X

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be

☒ X

1:24,000 or greater.

☒ X

Aerial Photo Attached (required for irrigation of 10+ acres).

☐

Photo of Diversion and System Attached

4.

F. VOLUME CALCULATIONS

2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEET

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Fred Johnson showed small on stream pond which was tributary to Alder Creek. Pond surface area measured out to 0.06 acre with a maximum depth of 10 feet or average depth of 4 feet. Applicant did not pump from the pond so stockwater from storage will be removed at licensing. Pond analysis sheet shows pond capacity of 0.2 acre-feet with 0.1 acre-feet of evaporation. License will be issued for 0.3 acre-feet for stockwater, wildlife, recreation, and fire protection storage purposes. License will have conditions 218, 219, and 220 with no overlap concerns.

Have conditions of permit approval been met? ☒ X Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31	0.3 AF
WILDLIFE STORAGE	01/01 to 12/31	0.3 AF
RECREATION STORAGE	01/01 to 12/31	0.3 AF
FIRE PROTECTION STORAGE	01/01 to 12/31	0.3 AF
<u>Totals:</u>		0.30 AF

2. Recommended Amendments☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ X None**I. AUTHENTICATION**

Field Examiner's Name

Adam Fendrich

Date

6-20-2017

Reviewer

Morgan Case

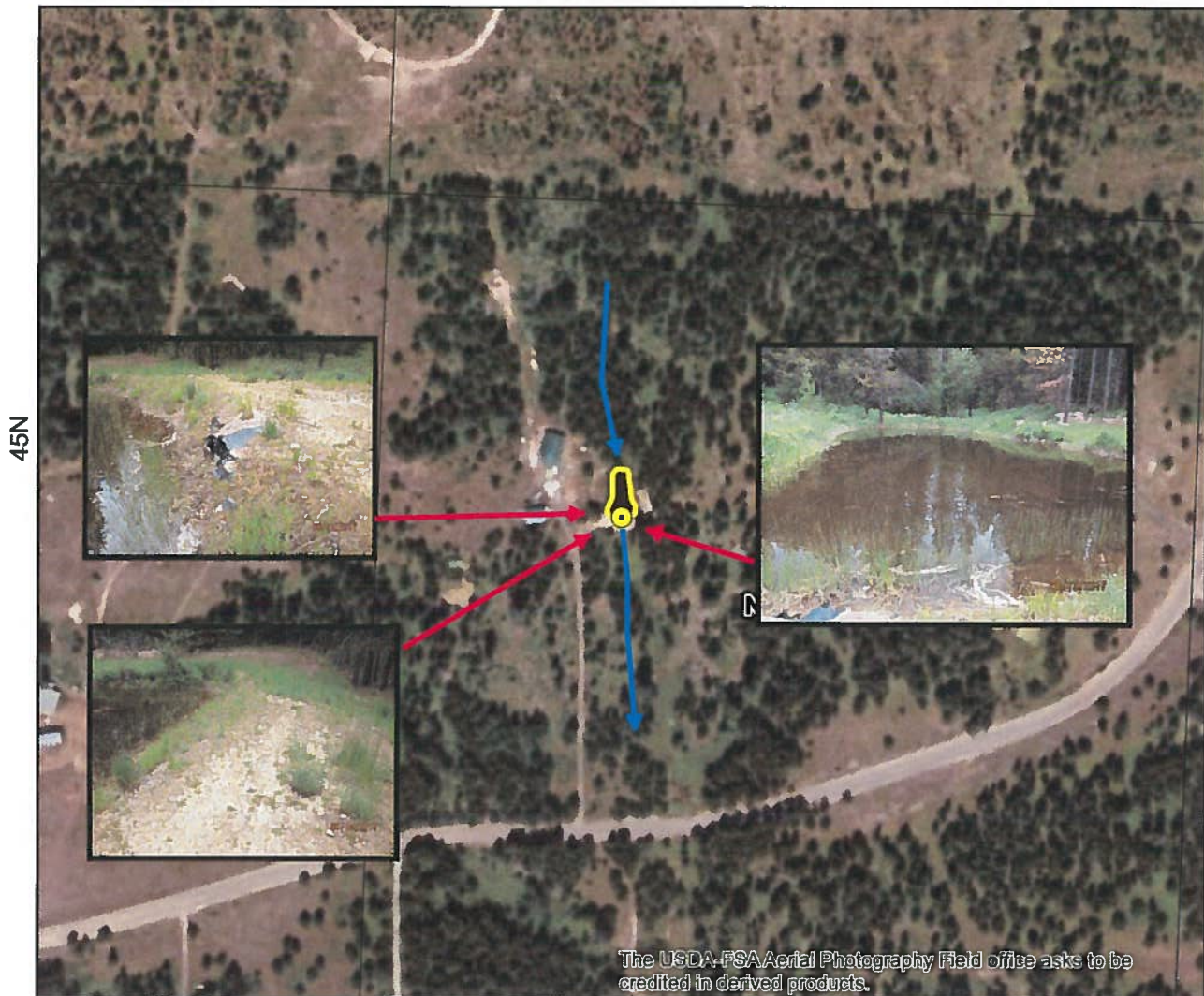
Date

6/20/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
92-10685

FIRE PROTECTION STORAGE, STOCKWATER STORAGE, WILDLIFE STORAGE, and RECREATION STORAGE
SYSTEM DIAGRAM

03W



0 0.035 0.07 0.14 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



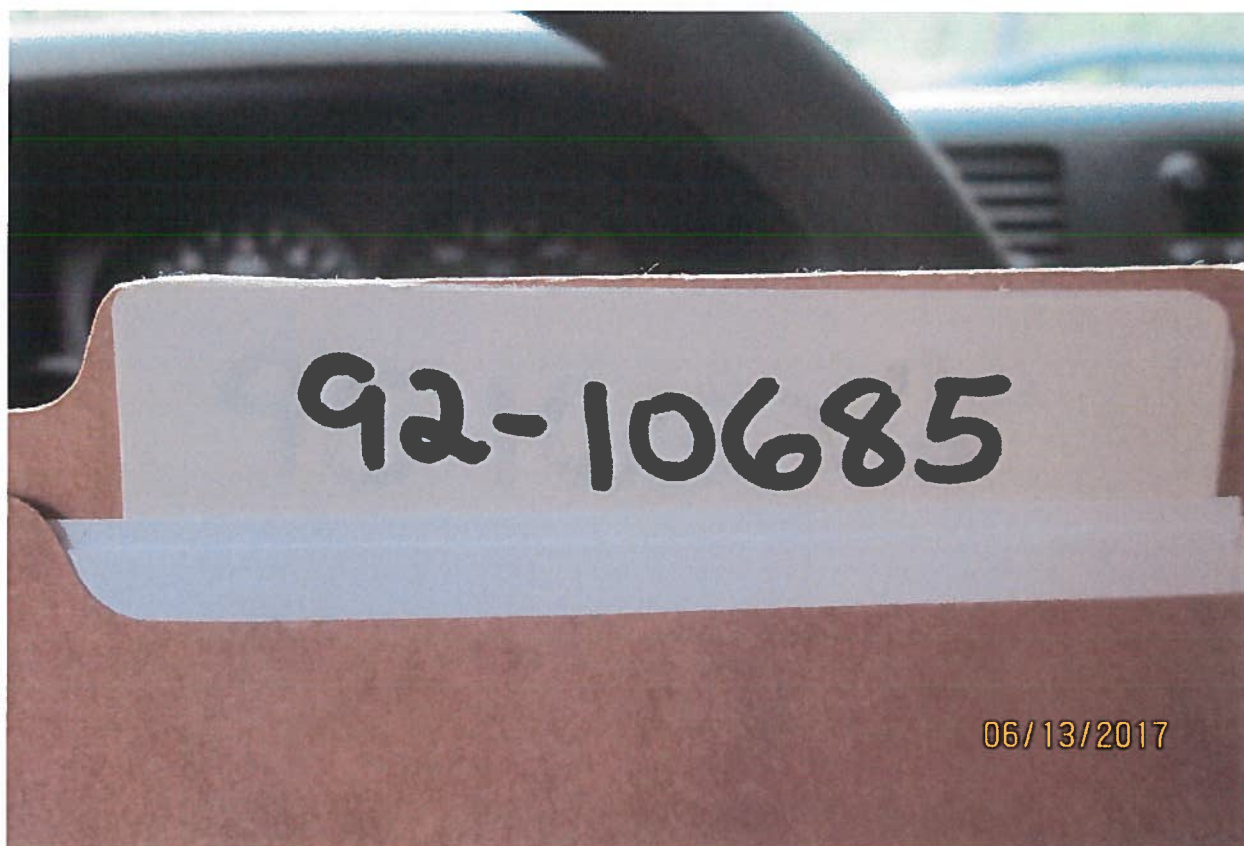
Total Storage Calculations

FILE NUMBER	92-10685
REVIEWER	Adam Frederick
DATE	6/20/2017

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.06	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	0.2	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. <i>Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.</i>
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). <i>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</i>
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.3	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.



Dam



Culverts for overflow of pond.



Overflow culverts looking downstream from dam.



Place of use.



View looking upstream from pond.